

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 3137.00007		FOR FURTHER ACTION	see Notification of Transmittal of International Searc Report (Form PCT/ISA/220) as well as, where applied item 5 below.					
International application No. PCT/IB03/01518		International filing date (day/month/year) 06 March 2003 (06.03.2003)		(Earliest) Priority Date (day/month/year) 06 March 2003 (06.03.2003)				
Applicant RUBINFELD, BEN-ZION								
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.								
 Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 								
b.	Authority (Rule 23.1(b)).	carried out on the basis of a translation of the international application furnished to this and/or amino acid sequence disclosed in the international application, the international asis of the sequence listing:						
	contained in the international application in written form.							
	filed together with the international application in computer readable form. furnished subsequently to this Authority in written form.							
一		is Authority in computer readable for	orm.					
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.								
	the statement that the inform been furnished.	nation recorded in computer readable	e form is id	dentical to the written sequence listing has				
2.	Certain claims were found	unsearchable (See Box I).						
3 4. With	Unity of invention is lacking regard to the title,	g (See Box II).		·				
4. WILL	the text is approved as subm	itted by the applicant.						
\square	••	by this Authority to read as follows	::					
Please See	Continuation Sheet							
5. With	regard to the abstract,							
	the text is approved as subm	itted by the applicant.						
\boxtimes	the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.							
6. The	figure of the drawings to be pub	lished with the abstract is Figure N	o. <u>1</u>					
\boxtimes	as suggested by the applican	t		None of the figures				
Щ	because the applicant failed	to suggest a figure.						
	because this figure better cha	aracterizes the invention.						

Form PCT/ISA/210 (first sheet) (July 1998)



International application No.

PCT/IB03/01518

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

An omindirectional mobility device made of a spherical device (12) that is capable of omni-directional movement. An omni directional vehicle (30) including the omnidirectional mobility device.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB03/01518

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B60B 19/14; B62 D 61/00, B60K 17/30 US CL : 301/5.1, 6.5, 16/24, 180/252, 7.1									
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED									
Minimum documentation searched (classification system followed by classification symbols) U.S.: 301/5.1, 6.5, 5.23; 16/24-26, 28, 45, 46; 180/252, 7.1, 12,13, 20, 21									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet									
C. DOC	UMENTS CONSIDERED TO BE RELEVANT								
Category *	Citation of document, with indication, where a		Relevant to claim No.						
X	JP 62-203824 (YAMADA) 08 September 1987 (08.0	1-3, 6-13, 16-20, 23							
Y		,	4,5,14,15, 21, 22						
x	JP 2001-354156 (YAGI et al.) 25 December 2001 (2	1-3, 6-13, 16-21,23							
<u> </u>		4,5,14,15, 22							
<u>x</u>	WO 98/31583 (FERRIERE et al.) 23 July 1998 (23.	07.1998) abstract, Figure 4-15	1-3, 6-9, 11-13, 16-20, 23						
Y			4, 5, 14, 15, 10, 21, 22						
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	`)								
			`						
Further	documents are listed in the continuation of Box C.	See patent family annex.	,						
* S	pecial categories of cited documents:	"T" later document published after the inte							
	defining the general state of the art which is not considered to be	date and not in conflict with the applic principle or theory underlying the inve							
"E" earlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone							
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is							
"O" document	referring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in th	n documents, such combination e art						
	published prior to the international filing date but later than the ate claimed	"&" document member of the same patent family							
	ctual completion of the international search	Date of mailing of the international search report							
29 December 2003 (29.12.2003) Name and mailing address of the ISA/US Authorized officer									
Mai Con	Illing address of the ISA/US Instop PCT, Attn: ISA/US Inmissioner for Patents I. Box 1450	Paul Dickson & Cope							
Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230 Telephone No. 703-308-1113									

Form PCT/ISA/210 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

PCT/IB03/01518

Continuation of Item 4 of The term "speriacal" is not une				
SPHERICAL MOBILITY ME	CHANISM			
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•	••			
Continuation of B. FIELD EPO, JPO, Derwent search terms: omnidirectional,				
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Form PCT/ISA/210 (second sheet) (July 1998)

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.